

OUTPUT

Frequency

5 MHz, dual output

Level

+10 dBm ±2 dB into 50 ohms,
each output

INPUT

Frequency

5 MHz

Level

-2 to +17 dBm into 50 ohms

Return Loss

-20 dB, maximum

STABILITY

Aging

±1x10⁻¹⁰ per day at time of shipment
1 week passive bake-out prior to
aging testing at approximately
+105°C

**Phase Noise L(f), Internal Oscillator,
maximum**

1 Hz -110 dBc/Hz
10 Hz -140 dBc
100 Hz -160 dBc
1 KHz -165 dBc
10 KHz -165 dBc

**Phase Noise L(f), External Reference,
maximum**

Input Referred

1 Hz -110 dBc/Hz
10 Hz -140 dBc
100 Hz -150 dBc
1 KHz -150 dBc
10 KHz -150 dBc

Temperature Stability

±1 x 10⁻⁸, -10° to +70°C

Subs & Spurious

-85 dBm

Harmonics

-25 dBm

MECHANICAL

Dimensions

2.25 x 2.25 x 1"

Connectors

SMA and feedthru capacitor

Packaging

Steel can with gasketed access
screw and threaded inserts on base

Finish

Nickel Plate

POWER REQUIREMENTS

Warm-Up Power

5.5 Watts for 5 minutes, typical

Total Power

2.0 Watts at +25°C, typical

Supply Voltage

+12 VDC

ADJUSTMENT

Mechanical Tuning

±.5 ppm minimum

Electrical Tuning

±.3 to +.6 ppm, 0 to +7 VDC
±.05 ppm of nominal at +3.5 volts, at room
temperature, at time of shipment
Negative Slope
Suitable for use with a 100 k ohm pot

V Reference

+8.0 VDC, typical, buffered by 10 k ohms

CRYSTAL

Type

5 MHz SC-cut, HC-40 package

SPECIAL

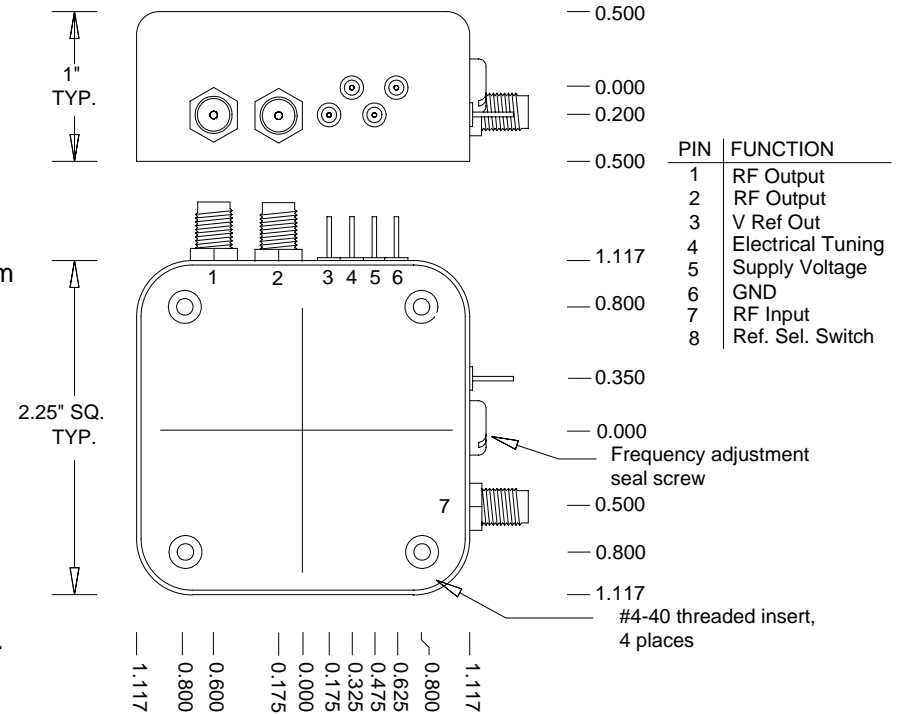
Reference Select Switch


>+4.0 Volts enables external reference.
<+1.0 Volts disables external reference.

Phase Perturbations

Design for minimum phase
perturbations during shock and
sinusoidal vibration.

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-14-07	Draft	LR	LR



 Wenzel Associates, Inc. Austin, Texas				
Title: 5 MHz Auto Switching Oscillator				
P/N: 501-17588	Rev: -	Date: 05-14-07	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1